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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 11

Complete if Known

Application Number	To Be Assigned
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	To Be Assigned
Examiner Name	To Be Assigned
Attorney Docket Number	31328-200393

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AA	4,129,349		von ROESGEN	12/78	
	AB	4,149,072		SMITH et al.	4/79	
	AC	4,291,943		BINEK et al.	9/81	
	AD	4,595,839		BRAUN et al.	6/86	
	AE	5,111,363		YAGI et al.	5/92	
	AF	5,202,943		CARDEN et al.	4/93	
	AG	5,295,214		CARD et al.	3/94	
	AH	5,416,871		TAKAHASHI et al.	5/95	
	AI	5,717,533		POPLAWSKI et al.	2/98	
	AJ	5,734,558		POPLAWSKI et al.	3/98	
	AK	5,864,468		POPLAWSKI et al.	1/99	
	AL	5,879,713		POPLAWSKI et al.	3/99	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	AM	EPO	437161			7/91		
	AN	EPO	624962			11/94		
	AO	UK	2087681			5/82		
	AP	JP	3-218134			9/91		

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Sheet	2	of	11		

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		Number	Kind Code ² (if known)			
	BA	5,228,188		HOWE	05/12/92	
	BB	5,113,317		BADIHI et al.	07/20/93	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	BC	DE	84 22 793			12/06/84		
	BD	DE	43 33 387			03/31/94		
	BE	DE	36 40 099			06/01/88		
	BF	EP	630 174			12/21/94		
	BG	DE	39 27 752			1991		

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	CA	5,497,289		SUGISHIMA et al.	03/05/96	
	CB	4,836,107		LANG et al.	06/06/89	
	CC	5,057,025		KLATT et al.	10/15/91	

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	CD	DE	84 22793.091					

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	DA	DE	4303780C1					
	DB	DE	4013630A1					
	DC	DE	3701788A1					
	DD	WO	95/20845					
	DE	GB	2253317A					
	DF	GB	2194700A					
	DG	DE	3735038A1					
	DH	DE	3743483A1					
	DI	DE	4209253C1					
	DJ	JP	3-116669					
	DK	JP	4-116372					

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	DL	German Office Action citing publications DA-DG and translation dated August 7, 1996	
	DM	German Opposition Statement citing publications DH-DJ and translation dated July 10, 2002	
	DN	Japan Office Action citing pubs DK-DL and AP (see p.1)	

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Attorney Docket Number		31238-200393			
Sheet	5	of	11		

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ² (if known)			
	EA	5,005,939		Arvanitakis et al.	04-19-1991	
	EB	5,475,518		Karaki	12-12-1995	
	EC	5,109,454		Okuno et al.	4-28-1992	
	ED	5,479,288		Ishizuka et al.	12-26-1995	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	EE	JP	4-42756			04-10-1992		Yes
	EF	JP	5-52802			07-13-1993		Yes
	EG	JP	3-157606			07-05-1991		Abs.

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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	EH	Japan Office Action citing JP-A-3-218134 of record and JP-A-5-215943 (equivalent to U.S. Patent 5,202,943, of record), and translation, dated October 29, 2002.	Yes
	EI	Japan Office Action citing JP-A-3-218134 of record and documents AA and AE, and translation, dated October 29, 2002.	Yes
	EJ	Japan Office Action citing JP-A-3-218134 and JP-A-5-215943 of record, and translation, dated October 29, 2002.	Yes
	EK	Japan Office Action citing JP-A-3-218134 of record and Japanese patent document corresponding to document EB, and translation, dated November 5, 2002.	Yes
	EL	Japan Office Action citing JP-A-5-215943 of record, Japanese patent documents corresponding to documents EC and ED, and documents EF and EG, and translation, dated November 19, 2002.	Yes

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		Number	Kind Code ² (if known)			
	FA	5,606,161		Schulz	02-25-1997	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	FB	DE	37 35 038 A1			04-27-1989		Yes
	FC	DE	37 43 483 A1			07-13-1989		Yes
	FD	DE	42 09 253 C1			02-25-1993		Yes

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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	GA	JP	3-157606			07-05-1991		Yes

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	IA	IBM, "Fiber Channel 266 Mb/s Optical Link Cards," 1992.	
	IB	21 C.F.R. § 1040.10 (revised as of April 1, 2002).	
	IC	Thomas & Betts, "INFO-LAN™ Transceiver," 1988.	

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	JA	BT&D Technologies, "Preliminary DLX2000," Feb. 1989.	
	JB	BT&D Technologies, "Products from BT&D: Datacommunications," Jan. 1990.	

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	KA	5,019,769		Levinson	05-28-1991	

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	KB	AMP, "Optimate Transceivers Application Note," Publication #4661-8, Oct. 1989.	
	KC	N. Yoshizawa et al., "1.25 Gb/s Transceiver with SC Duplex Optical Receptacle," Spring Conference in 1993 of The Institute of Electronics, Information and Communication Engineers, page 4-146, 1993 (and translation).	✓

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/766,488
				Filing Date	January 29, 2004
				First Named Inventor	Shin ISHIBASHI
				Group Art Unit	2874
				Examiner Name	Ullah, Akm E.
				Attorney Docket Number	31328-200393
Sheet	1	of	4		

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
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	A2	4,553,813		McNaughton et al.	11-19-1985	
	A3	4,612,670		Henderson	09-16-1986	
	A4	4,625,333		Takezawa et al.	10-25-1986	
	A5	4,737,008		Ohyama et al.	04-12-1988	
	A6	4,911,519		Burton et al.	03-27-1990	
	A7	4,912,521		Almquist et al.	03-27-1990	
	A8	4,913,511		Tabalba et al.	04-03-1990	
	A9	4,945,229		Daly et al.	07-31-1990	
	A10	4,969,924		Suverison et al.	11-13-1990	
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	A12	5,013,247		Watson	05-07-1991	
	A13	5,039,194		Block et al.	08-13-1991	
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	A16	5,113,466		Acarlar et al	05-12-1992	

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	B2	5,202,943		Carden et al.	04-13-1993	
	B3	5,243,678		Schaffer et al.	09-07-1993	
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	B5	5,289,345		Corradetti et al.	02-22-1994	
	B6	5,325,454		Rittle et al.	06-28-1994	
	B7	5,325,455		Henson et al.	06-28-1994	
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	B12	5,515,468		DeAndrea et al.	05-07-1996	
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	C9	5,561,727		Akita et al.	10-01-1996	

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	C10	JP	7-225327	A				✓
	C11	JP	7-225328	A				✓

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Examiner Name	Ullah, Akm E.
Attorney Docket Number	31238-200393

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	D1	Hewlett-Packard, "Optoelectronics Designer's Catalog," 1990.	
	D2	Sumitomo Electric Fiber Optics Corp., "Product Bulletin, FDDI Optical Transceiver, ES-9217-XC," publication date unknown.	
	D3	Sumitomo Electric, "Technical Specification for FDDI Optical Transceiver Module, ES-9217-XC, SC Duplex FDDI PMD, ES-9210-XC, SC Duplex LCF PMD," March 25, 1993.	
	D4	Proposal for Multi-Chip Integration submitted to the Advanced Research Projects Agency dated May 11, 1993, publication date unknown.	
	D5	Thomas & Betts, "INFO-LAN Fiber Optic Map Network (IEEE 802.4) Users Manual," August 1988.	
	D6	IBM Opto-Electronics Enterprise, "RCL-2000 LCF-PMD FDDI, Preliminary Specifications," Jan. 7, 1993.	
	D7	Hewlett-Packard, "FDDI 1300 nm Transceiver, Technical Data, HFBR-5125," 1991.	
	D8	Daniel J. Wasser, "Optical Datalinks," AT&T Technical Journal, p. 46-52, January/February 1992.	

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U.S. PATENT DOCUMENTS

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Sheet 2 of 31

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	D3	4,427,879		Becher et al.	01-24-1984	
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Attorney Docket Number	31238-200393

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Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	E1	4,501,021		Weiss	02-19-1985	
	E2	4,502,130		Kuckuk	02-26-1985	
	E3	4,505,035		Burton et al.	03-19-1985	
	E4	4,506,937		Cosmos et al.	03-26-1985	
	E5	4,510,553		Faultersack	04-09-1985	
	E6	4,511,207		Newton et al.	04-16-1985	
	E7	4,514,586		Waggoner	04-30-1985	
	E8	4,516,204		Sauer et al.	05-07-1985	
	E9	4,519,670		Spinner et al.	05-28-1985	
	E10	4,519,672		Rogstadius	05-28-1985	
	E11	4,519,673		Hamilton	05-28-1985	
	E12	4,522,463		Schwenda et al.	06-11-1985	
	E13	4,526,438		Essert	07-02-1985	
	E14	4,526,986		Fields et al.	07-02-1985	
	E15	4,527,286		Haworth	07-02-1985	
	E16	4,529,266		Delebecque	07-16-1985	

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Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 6 of 31

Complete if Known

Application Number	10/766,488
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	2874
Examiner Name	Ullah, Akm E.
Attorney Docket Number	31238-200393

U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
	F1	4,530,566		Smith et al.	07-23-1985	
	F2	4,531,810		Carlsen	07-30-1985	
	F3	4,533,208		Stowe	08-06-1985	
	F4	4,533,209		Segerson et al.	08-06-1985	
	F5	4,534,616		Bowen et al.	08-13-1985	
	F6	4,534,617		Kloots et al.	08-13-1985	
	F7	4,535,233		Abraham	08-13-1985	
	F8	4,537,468		Degoix et al.	08-27-1985	
	F9	4,539,476		Donuma et al.	09-03-1985	
	F10	4,540,237		Winzer	09-10-1985	
	F11	4,540,246		Fantone	09-10-1985	
	F12	4,541,036		Landries et al.	09-10-1985	
	F13	4,541,685		Anderson	09-17-1985	
	F14	4,542,076		Bednarz et al.	09-17-1985	
	F15	4,544,231		Peterson	10-01-1985	
	F16	4,544,233		Iwamoto et al.	10-01-1985	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 7 of 31

Complete if Known

Application Number	10/766,488
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	2874
Examiner Name	Ullah, Akm E.
Attorney Docket Number	31238-200393

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	G1	4,544,234		DeVeau, Jr. et al.	10-01-1985	
	G2	4,545,074		Balliet et al.	10-01-1985	
	G3	4,545,077		Drapala et al.	10-01-1985	
	G4	4,545,642		Auracher et al.	10-08-1985	
	G5	4,545,643		Young et al.	10-08-1985	
	G6	4,545,644		DeVeau, Jr. et al.	10-08-1985	
	G7	4,545,645		Mignien	10-08-1985	
	G8	4,548,465		White	10-22-1985	
	G9	4,548,466		Evans et al.	10-22-1985	
	G10	4,548,467		Stoerk et al.	10-22-1985	
	G11	4,549,782		Miller	10-29-1985	
	G12	4,549,783		Schmachtenberg, III	10-29-1985	
	G13	4,550,975		Levinson et al.	11-05-1985	
	G14	4,553,811		Becker et al.	11-19-1985	
	G15	4,553,813		McNaughton et al.	11-19-1985	
	G16	4,553,814		Bahl et al.	11-19-1985	

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Application Number		10/766,488			
Filing Date		January 29, 2004			
First Named Inventor		Shin ISHIBASHI			
Group Art Unit		2874			
Examiner Name		Ullah, Akm E.			
Attorney Docket Number		31238-200393			
Sheet	8	of	31		

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Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	H1	4,556,279		Shaw et al.	12-03-1985	
	H2	4,556,281		Anderton	12-03-1985	
	H3	4,556,282		Delebecque	12-03-1985	
	H4	4,557,551		Dyott	12-10-1985	
	H5	4,560,234		Shaw et al.	12-24-1985	
	H6	4,563,057		Ludman et al.	01-07-1986	
	H7	4,566,753		Mannschke	01-28-1986	
	H8	4,568,145		Colin et al.	02-04-1986	
	H9	4,569,569		Stewart	02-11-1986	
	H10	4,573,760		Fan et al.	03-04-1986	
	H11	4,580,295		Richman	04-01-1986	
	H12	4,580,872		Bhatt et al.	04-08-1986	
	H13	4,588,256		Onstott et al.	05-13-1986	
	H14	4,589,728		Dyott et al.	05-20-1986	
	H15	4,597,631		Flores	07-01-1986	
	H16	4,614,836		Carpenter et al.	09-30-1986	

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Sheet 9 of 31

Complete if Known

Application Number	10/766,488
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	2874
Examiner Name	Ullah, Akm E.
Attorney Docket Number	31238-200393

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	11	4,629,270		Andrews, Jr. et al.	12-16-1986	
	12	4,634,239		Buhrer	01-06-1987	
	13	4,641,371		Shutterly	02-03-1987	
	14	4,647,148		Katagiri	03-03-1987	
	15	4,652,976		Fushimoto	03-24-1987	
	16	4,663,240		Hajdu et al.	05-05-1987	
	17	4,663,603		van Riemsdijk et al.	05-05-1987	
	18	4,678,264		Bowen et al.	07-07-1987	
	19	4,679,883		Assini et al.	07-14-1987	
	110	4,695,106		Feldman et al.	09-22-1987	
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	113	4,715,675		Kevern et al.	12-29-1987	
	114	4,720,630		Takeuchi et al.	01-19-1988	
	115	4,722,584		Kakii et al.	02-02-1988	
	116	4,736,100		Vastagh	04-05-1988	

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Sheet 10 of 31

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Application Number	10/766,488
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	2874
Examiner Name	Ullah, Akm E.
Attorney Docket Number	31238-200393

U.S. PATENT DOCUMENTS

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	J2	4,762,388		Tanaka et al.	08-09-1988	
	J3	4,767,179		Sampson et al.	08-30-1988	
	J4	4,772,931		Rogers	09-20-1988	
	J5	4,779,952		Hayashi et al.	10-25-1988	
	J6	4,789,218		Paul et al.	12-06-1988	
	J7	4,798,430		Johnson et al.	01-17-1989	
	J8	4,798,440		Hoffer et al.	01-17-1989	
	J9	4,807,006		Rogers et al.	02-21-1989	
	J10	4,807,955		Ashman et al.	02-28-1989	
	J11	4,808,115		Norton et al.	02-28-1989	
	J12	4,811,165		Currier et al.	03-07-1989	
	J13	4,812,133		Fleak et al.	03-14-1989	
	J14	4,821,145		Corfits et al.	04-11-1989	
	J15	4,823,235		Suzuki et al.	04-18-1989	
	J16	4,838,630		Jannson et al.	06-13-1989	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 11 of 31

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Application Number	10/766,488
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	2874
Examiner Name	Ullah, Akm E.
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	K1	4,840,451		Sampson et al.	06-20-1989	
	K2	4,844,581		Turner	07-04-1989	
	K3	4,847,711		Inoue	07-11-1989	
	K4	4,847,771		Scamera	07-11-1989	
	K5	4,849,944		Matsushita	07-18-1989	
	K6	4,857,002		Jensen et al.	08-15-1989	
	K7	4,862,327		Ansell et al.	08-29-1989	
	K8	4,872,212		Roos et al.	10-03-1989	
	K9	4,872,736		Myers et al.	10-10-1989	
	K10	4,881,789		Levinson	11-21-1989	
	K11	4,884,336		Waters et al.	12-05-1989	
	K12	4,897,711		Blonder et al.	01-30-1990	
	K13	4,906,197		Noll	03-06-1990	
	K14	4,927,225		Levinson	05-22-1990	
	K15	4,944,568		Danbach et al.	07-31-1990	
	K16	4,945,448		Bremenour et al.	07-31-1990	

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Application Number		10/766,488			
Filing Date		January 29, 2004			
First Named Inventor		Shin ISHIBASHI			
Group Art Unit		2874			
Examiner Name		Ullah, Akm E.			
Attorney Docket Number		31238-200393			
Sheet	12	of	31		

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	L1	4,953,929		Basista et al.	09-04-1990	
	L2	4,955,817		Sugai	09-11-1990	
	L3	4,963,104		Dickie	10-16-1990	
	L4	4,967,312		Ozawa et al.	10-30-1990	
	L5	4,977,329		Eckhardt et al.	12-11-1990	
	L6	4,979,793		Bowen et al.	12-25-1990	
	L7	4,979,794		Evans	12-25-1990	
	L8	4,986,625		Yamada et al.	01-22-1991	
	L9	4,989,934		Zavracky et al.	02-05-1991	
	L10	4,990,104		Schieferly	02-05-1991	
	L11	4,991,062		Nguyennhoc	02-05-1991	
	L12	5,002,495		Tanaka	03-26-1991	
	L13	5,004,434		Aiello et al.	04-02-1991	
	L14	5,006,286		Dery et al.	04-09-1991	
	L15	5,011,425		Van Zanten et al.	04-30-1991	
	L16	5,029,254		Stickney	07-02-1991	

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Application Number		10/766,488			
Filing Date		January 29, 2004			
First Named Inventor		Shin ISHIBASHI			
Group Art Unit		2874			
Examiner Name		Ullah, Akm E.			
Attorney Docket Number		31238-200393			
Sheet	13	of	31		

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	M1	5,035,482		ten Berge et al.	07-30-1991	
	M2	5,035,641		Van-Santbrink et al.	07-30-1991	
	M3	5,040,993		Krug et al.	08-20-1991	
	M4	5,041,025		Haitmanek	08-20-1991	
	M5	5,043,775		Lee	08-27-1991	
	M6	5,044,982		Bertini	09-03-1991	
	M7	5,045,635		Kaplo et al.	09-03-1991	
	M8	5,045,971		Ono et al.	09-03-1991	
	M9	5,046,955		Olsson	09-10-1991	
	M10	5,060,373		Machura et al.	10-29-1991	
	M11	5,071,219		Yurtin et al.	12-10-1991	
	M12	5,076,656		Briggs et al.	12-31-1991	
	M13	5,076,688		Bowen et al.	12-31-1991	
	M14	5,082,344		Mulholland et al.	01-21-1992	
	M15	5,084,802		Nguyenngoc	01-28-1992	
	M16	5,086,422		Hagiya et al.	02-04-1992	

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	N1	5,091,991		Briggs et al.	02-25-1992	
	N2	5,093,879		Bregman et al.	03-03-1992	
	N3	5,094,623		Scharf et al.	03-10-1992	
	N4	5,101,463		Cubukciyan et al.	03-31-1992	
	N5	5,104,243		Harding	04-14-1992	
	N6	5,107,404		Tam	04-21-1992	
	N7	5,108,294		Marsh et al.	04-28-1992	
	N8	5,109,453		Edwards et al.	04-28-1992	
	N9	5,113,467		Peterson et al.	05-12-1992	
	N10	5,116,239		Siwinski	05-26-1992	
	N11	5,117,476		Yinsgt et al.	5,117,476	
	N12	5,118,362		St. Angelo et al.	06-02-1992	
	N13	5,118,904		Nguyenngoc	06-02-1992	
	N14	5,120,578		Chen et al.	06-09-1992	
	N15	5,122,893		Tolbert	06-16-1992	
	N16	5,124,885		Liu	06-23-1992	
	N17	5,125,849		Briggs et al.	06-30-1992	
	N18	5,127,071		Go	06-30-1992	
	N19	5,132,871		Densham et al.	07-21-1992	

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				First Named Inventor	Shin ISHIBASHI
				Group Art Unit	2874
				Examiner Name	Ullah, Akm E.
				Attorney Docket Number	31238-200393
Sheet	15	of	31		

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	O1	5,134,677		Leung et al.	07-28-1992	
	O2	5,134,679		Robin et al.	07-28-1992	
	O3	5,136,063		O'Lenick, Jr.	08-04-1992	
	O4	5,136,152		Lee	08-04-1992	
	O5	5,136,603		Hasnain et al.	08-04-1992	
	O6	5,138,537		Wang	08-11-1992	
	O7	5,138,678		Briggs et al.	08-11-1992	
	O8	5,140,663		Edwards et al.	08-18-1992	
	O9	5,155,786		Ecker et al.	10-13-1992	
	O10	5,157,769		Eppley et al.	10-20-1992	
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	O14	5,171,167		Kosmala	12-15-1992	
	O15	5,173,059		Sato et al.	12-22-1992	
	O16	5,183,404		Aldous et al.	02-02-1993	
	O17	5,183,405		Elicker et al.	02-02-1993	

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Application Number		10/766,488			
Filing Date		January 29, 2004			
First Named Inventor		Shin ISHIBASHI			
Group Art Unit		2874			
Examiner Name		Ullah, Akm E.			
Attorney Docket Number		31238-200393			
Sheet	16	of	31		

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ² (if known)			
	P1	5,195,911		Murphy	03-23-1993	
	P2	5,202,536		Buonanno	04-13-1993	
	P3	5,207,597		Kline et al.	05-04-1993	
	P4	5,212,752		Stephenson et al.	05-18-1993	
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	P7	5,225,760		Leiserson	06-06-1993	
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	P9	5,233,674		Vladic	08-03-1993	
	P10	5,234,353		Scholz et al.	08-10-1993	
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	P12	5,241,614		Ecker et al.	08-31-1993	
	P13	5,247,532		Levinson	09-21-1993	
	P14	5,259,052		Briggs et al.	11-02-1993	
	P15	5,259,054		Benzoni et al.	11-02-1993	
	P16	5,262,923		Batta et al.	11-16-1993	
	P17	5,271,079		Levinson	12-14-1993	

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Sheet 17 of 31

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Application Number	10/766,488
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	2874
Examiner Name	Ullah, Akm E.
Attorney Docket Number	31238-200393

U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)			
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	Q2	5,285,466		Tabatabaie	02-08-1994	
	Q3	5,285,511		Akkapeddi et al.	02-08-1994	
	Q4	5,285,512		Duncan et al.	02-08-1994	
	Q5	5,286,207		McHugh	02-15-1994	
	Q6	5,286,247		Weder et al.	02-15-1994	
	Q7	5,288,247		Kaufman	02-22-1994	
	Q8	5,289,347		McCarthy et al.	02-22-1994	
	Q9	5,296,813		Holmes et al.	03-22-1994	
	Q10	5,299,089		Lwee	03-29-1994	
	Q11	5,304,069		Brunker et al.	04-19-1994	
	Q12	5,305,182		Chen	04-19-1994	
	Q13	5,311,408		Ferchau et al.	05-10-1994	
	Q14	5,315,679		Baldwin et al.	05-24-1994	
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Sheet 18 of 31

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Application Number	10/766,488
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	R3	5,333,225		Jacobowitz et al.	07-26-1994	
	R4	5,337,391		Lebby	08-09-1994	
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	R6	5,340,340		Hastings et al.	08-23-1994	
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	R8	5,345,530		Lebby et al.	09-06-1994	
	R9	5,353,364		Kurashima	10-04-1994	
	R10	5,353,634		Baba et al.	10-11-1994	
	R11	5,356,300		Costello et al.	10-18-1994	
	R12	5,357,402		Anhalt	10-18-1994	
	R13	5,361,244		Nakamura et al.	11-01-1994	
	R14	5,361,318		Go et al.	11-01-1994	
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	R16	5,372,515		Miller et al.	12-13-1994	

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	S1	5,375,040		Cooper et al.	12-20-1994	
	S2	5,383,793		Hsu et al.	01-24-1995	
	S3	5,388,995		Rudy, Jr. et al.	02-14-1995	
	S4	5,390,268		Morlion et al.	02-14-1995	
	S5	5,393,249		Morgenstern et al.	02-28-1995	
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	S8	5,398,295		Chang et al.	03-14-1995	
	S9	5,408,384		Gannyo et al.	04-18-1995	
	S10	5,414,787		Kurata	05-09-1995	
	S11	5,416,668		Benzoni	05-16-1995	
	S12	5,416,870		Chun et al.	05-16-1995	
	S13	5,416,872		Sizer, II et al.	05-16-1995	
	S14	5,419,717		Abendschein et al.	05-30-1995	
	S15	5,424,573		Kato et al.	06-13-1995	
	S16	5,428,703		Lee	06-27-1995	

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	T1	5,428,704		Lebby et al.	06-27-1985	
	T2	5,434,747		Shibata	07-18-1995	
	T3	5,443,390		Kokkosoulis et al.	08-22-1995	
	T4	5,446,814		Kuo et al.	08-29-1995	
	T5	5,452,387		Chun et al.	09-19-1995	
	T6	5,454,080		Fasig et al.	09-26-1995	
	T7	5,455,703		Duncan et al.	10-03-1995	
	T8	5,463,532		Petitpierre et al.	10-31-1995	
	T9	5,469,332		Alvit�	11-21-1995	
	T10	5,470,257		Szegda	11-28-1995	
	T11	5,470,259		Kaufman et al.	11-28-1995	
	T12	5,475,734		McDonald et al.	12-12-1995	
	T13	5,477,418		MacGregor et al.	12-19-1995	
	T14	5,478,253		Biechler et al.	12-26-1995	
	T15	5,478,259		Noschese	12-26-1995	
	T16	5,478,260		Kaufman et al.	12-26-1995	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 21 of 31

Complete if Known

Application Number	10/766,488
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	2874
Examiner Name	Ullah, Akm E.
Attorney Docket Number	31238-200393

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	U1	5,481,634		Anderson et al.	01-02-1996	
	U2	5,482,658		Lebby et al.	01-09-1996	
	U3	5,487,678		Tsuji et al.	01-30-1996	
	U4	5,491,613		Petitpierre	02-13-1996	
	U5	5,491,712		Lin et al.	02-13-1996	
	U6	5,494,747		Rha	02-27-1996	
	U7	5,499,311		DeCusatis	03-12-1996	
	U8	5,499,312		Hahn et al.	03-12-1996	
	U9	5,504,657		Stocco	04-02-1996	
	U10	5,506,921		Horie	04-09-1996	
	U11	5,506,922		Grois et al.	04-09-1996	
	U12	5,507,668		Lambrinos et al.	04-16-1996	
	U13	5,526,235		Beason et al.	06-11-1996	
	U14	5,527,991		Sadowski et al.	06-18-1996	
	U15	5,534,662		Peacock et al.	07-09-1996	
	U16	5,535,296		Uchida	07-09-1996	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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Sheet

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of

31

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Application Number	10/766,488
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	2874
Examiner Name	Ullah, Akm E.
Attorney Docket Number	31238-200393

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		Number	Kind Code ² (if known)			
	V1	5,535,364		Resman et al.	07-09-1996	
	V2	5,545,845		Flores	08-13-1996	
	V3	5,546,281		Poplawski et al.	08-13-1996	
	V4	5,547,385		Spangler	08-20-1996	
	V5	5,548,641		Butler et al.	08-20-1996	
	V6	5,548,677		Kakii et al.	08-20-1996	
	V7	5,554,031		Moir et al.	09-10-1996	
	V8	5,554,037		Uleski	09-10-1996	
	V9	5,567,167		Hayashi	10-22-1996	
	V10	5,577,064		Swirhun et al.	11-19-1996	
	V11	5,580,269		Fan	12-03-1996	
	V12	5,588,850		Pan et al.	12-31-1996	
	V13	5,598,319		Lee	01-28-1997	
	V14	5,599,595		McGinley et al.	02-04-1997	
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	V16	5,613,860		Banakis et al.	03-25-1997	

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Application Number	10/766,488
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	2874
Examiner Name	Ullah, Akm E.
Attorney Docket Number	31238-200393

Sheet 23 of 31

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	W1	5,629,919		Hayashi et al.	05-13-1997	
	W2	5,631,998		Han	05-20-1997	
	W3	5,653,596		Banakis et al.	08-05-1997	
	W4	5,659,459		Wakabayashi et al.	08-19-1997	
	W5	5,675,428		Henmi	10-07-1997	
	W6	5,687,267		Uchida	11-11-1997	
	W7	5,717,533		Poplawski et al.	02-10-1998	
	W8	5,724,729		Sherif et al.	03-10-1998	
	W9	5,726,864		Copeland et al.	03-10-1998	
	W10	5,734,558		Poplawski et al.	03-31-1998	
	W11	5,736,782		Schairer	04-07-1998	
	W12	5,747,735		Chang et al.	05-05-1998	
	W13	5,767,999		Kayner	06-16-1998	
	W14	5,779,504		Dominiak et al.	07-14-1998	
	W15	5,797,771		Garside	08-25-1998	
	W16	5,836,774		Tan et al.	11-17-1998	

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Application Number		10/766,488			
Filing Date		January 29, 2004			
First Named Inventor		Shin ISHIBASHI			
Group Art Unit		2874			
Examiner Name		Ullah, Akm E.			
Attorney Docket Number		31238-200393			
Sheet	24	of	31		

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	X1	5,864,468		Poplawski et al.	01-26-1999	
	X2	5,879,173		Poplawski et al.	03-09-1999	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
		Office ₃	Number ⁴	Kind Code ⁵ (if known)				
	X3	DE	(USP, 233,674) 42 39 124	A1		05-27-1993		
	X4	EP	0 232 792	A1		08-18-1987		x
	X5	EP	0 228 278	A2		07-08-1987		
	X6	EP	0 305 112	A2, A3		03-01-1989		
	X7	EP	0 314 651	A2, A3		05-03-1989		
	X8	EP	0 413 489	A2, A3		02-20-1991		
	X9	EP	(USP 5,167,139) 0 437 141	A1		07-17-1991		
	X10	EP	0 456 298	B1		10-02-1996		
	X11	EP	0 530 791	A2		03-10-1993		
	X12	EP	0 535 473	A1		04-07-1993		
	X13	EP	0 588 014	A2, A3		03-23-1994		
	X14	EP	0 600 645	A1		06-08-1994		
	X15	EP	0 613 032	A2, A3		08-31-1994		
	X16	EP	0 652 696	A1		05-10-1995		
	X17	EP	0 656 696	A2		06-07-1995		x
	X18	EP	0 662 259	B1		03-31-1994		x
	X19	EP	0 442 608	A2		08-21-1991		
	X20	WO	94/12900			06-09-1994		
	X21	JP	A-1-237783			09-22-1989		x

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				Application Number	10/766,488	
Sheet		25	of	31	Filing Date	January 29, 2004
					First Named Inventor	Shin ISHIBASHI
					Group Art Unit	2874
					Examiner Name	Ullah, Akm E.
					Attorney Docket Number	3238-200393

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
		Offic e ³	Number ⁴	Kind Code ⁵ (if known)				
	Y1	JP	A-2-151084			06-11-1990		X
	Y2	JP	A-2-181710			07-16-1990		X
	Y3	JP	A-2-278212			11-14-1990		X
	Y4	JP	A-2-87837			03-28-1999		X
	Y5	JP	A-3-20458			01-19-1991		X
	Y6	JP	A-3-94869			04-19-1991		X
	Y7	JP	A-4-109593			04-10-1992		X
	Y8	JP	A-4-122905			04-23-1992		X
	Y9	JP	A-4-165312			06-11-1990		X
	Y10	JP	(USP 5,127,071) A-4-211208			08-03-1992		
	Y11	JP	A-4-221207			08-11-1992		X
	Y12	JP	(USP 5,116,239) A-4-229962			08-19-1992		
	Y13	JP	(USP 5,104,243) A-4-230978			08-19-1992		
	Y14	JP	(USP 5,113,467) A-4-234715			08-24-1992		
	Y15	JP	(USP 5,117,476) A-4-270305			09-25-1992		
	Y16	JP	A-4-50901			02-19-1992		X
	Y17	JP	A-4-87809			03-19-1992		X
	Y18	JP	A-5-052802			03-02-1993		X
	Y19	JP	A-5-134147			05-28-1993		X

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				Application Number	10/766,488
				Filing Date	January 29, 2004
				First Named Inventor	Shin ISHIBASHI
				Group Art Unit	2874
				Examiner Name	Ullah, Akm E.
				Attorney Docket Number	31238-200393
Sheet	26	of	31		

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
		Offic e ³	Number ⁴	Kind Code ⁵ (if known)				
	Z1	JP	A-5-152607		06-18-1993			x
	Z2	JP	A-5-188250		07-30-1993			x
	Z3	JP	A-5-211379		08-20-1993			x
	Z4	JP	A-5-218581		08-27-1993			x
	Z5	JP	A-5-290913		11-05-1993			x
	Z6	JP	A-5-70955		03-23-1993			x
	Z7	JP	A-61-158046		07-17-1986			x
	Z8	JP	A-61-188385		08-22-1986			y
	Z9	JP	A-63-009325		01-16-1988			x
	Z10	JP	A-63-16496		01-23-1988			x
	Z11	JP	A-63-65967		03-24-1988			x
	Z12	JP	A-63-65978		03-24-1988			x
	Z13	JP	A-63-82998		04-13-1988			y
	Z14	JP	U-3-20458		02-26-1991			y
	Z15	JP	U-3-94869		09-27-1991			y
	Z16	JP	U-4-87809		07-30-1992			y
	Z17	JP	U-5-052802		07-13-1993			y
	Z18	JP	U-5-70955		09-24-1993			y
	Z19	JP	U-61-158046		09-30-1986			y

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	27	of	31
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Complete if Known

Application Number	10/766,488
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	2874
Examiner Name	Ullah, Akm E.
Attorney Docket Number	31238-200393

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Sheet 28 of 31

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Application Number	10/766,488
Filing Date	January 29, 2004
First Named Inventor	Shin ISHIBASHI
Group Art Unit	2874
Examiner Name	Ullah, Akm E.
Attorney Docket Number	31238-200393

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	BB1	AT&T Microelectronics, "1408-Type ODL Transceiver", Feb. 1994 preliminary data sheet, p. 2-10.	
	BB2	Ronald L. Soderstrom et al., "An optical Data Link using a CD laser", SPIE Vol. 1577 High Speed Fiber Networks and Channels, pp. 163-173, 1991.	
	BB3	BCP, Inc. "Gigabits Over Multimode Optical Fiber" no date.	
	BB4	Ronald L. Soderstrom et al., "CD laser optical Data Links for Workstation and Midrange Computers", IEEE p. 505-509, 1993.	
	BB5	FDDI Low-Cost Fiber Physical Layer Medium Dependent (LCF-PMD) Common Receiver Footprint, no date.	
	BB6	HP Module HFBR-5103, FDDI Data Sheet, http://www.hp.com/HP-COMP/fiber/hfbr5103.html , Jun. 11, 1998.	
	BB7	IBM Technical Disclosure Bulletin "Optical Link Card Guide/Retention System", www.patents.ibm.com/tdbs/tdb?&order=93A+60964 , April 1993.	
	BB8	IBM, "A Proposal for a New High Performance..." OptoElectronics Enterprise Oct. 1992 ANSI Meeting, Oct. 13, 1992.	
	BB9	IBM et al., "GLM Family", FCSI-301-Rev. 1.0, Feb. 16, 1994.	
	BB10	Methode Electronics, Inc., "DM 1063-DBLM9 Copper Gigabit Link Module" data sheet (no date).	
	BB11	"Raylan Joins Low-Wavelength Push - 850 nm Transceiver", Electronic Engineering Times, Aug. 1993.	

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Date
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		Filing Date	January 29, 2004
		First Named Inventor	Shin ISHIBASHI
		Group Art Unit	2874
		Examiner Name	Ullah, Akm E.
		Attorney Docket Number	31238-200393
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	CC1	Sumitomo Electric Fiber Optics Corp. "Transceiver Manufacturers to Support Common Footprint for Desktop FDDI Applications," June 23, 1992.	
	CC2	Sun Microsystems Computer Co. et al., Gigabit Interface Converter (GBIC), Rev 4.4, Dec. 1, 1997.	
	CC3	Siemens, "Who provides Low-Cost Transceivers for all Standards?" no date.	
	CC4	AMP "PC Board Connectors", Product Guide 82759, pp. 7104-7108, Catalog E2750 issued Jun. 1991.	
	CC5	AMP Inc. "Lytel Molded-Optronic SC Duplex Transceiver", Catalog 65922, Dec. 1993.	
	CC6	AMPHENOL Engineering News, vol. 7 No. 6, pp. 241, 264-65, Nov. 1994.	
	CC7	Baldwin and Kellerman, "Fiber Optic Module Interface Attachment" Research disclosure, Kenneth Mason Publication Ltd, England, Nov. 1991.	
	CC8	Block and Gaio "Optical Link Card guide/Retention Sys" RESEARCH DISCLOSURE Kenneth Mason Publications Ltd., England, Apr. 1993.	
	CC9	Cinch Hinge Connectors Catalog CM-16, Jul. 1963.	
	CC10	Martin H. Weik, "Communication Standard Dictionary" p. 454. definition of LED, Van Nostrand Reinhold Co.	
	CC11	Edward R. Salmon, Encapsulation of Electronic Devices and Components, Marcel Dekker Inc., New York, 1987.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/766,488
		Filing Date	January 29, 2004
		First Named Inventor	Shin ISHIBASHI
		Group Art Unit	2874
		Examiner Name	Ullah, Akm E.
		Attorney Docket Number	31238-200393
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	DD1	Dieter Gwinner, Conductive Coatings: Vacuum Evaporated Aluminum for Selective Shielding of Plastic Housings, no date.	
	DD2	HEADSUP--Sumitomo Electric Lightwave Joins Others in Announcement, May 11, 1995	
	DD3	Robert C. Herron, High Density Input/Output Connector Systems, 3M Electronic Products Division, 1990.	
	DD4	Shortwave Opto Assembly, IBM OptoElectronic Enterprises; IBM/OEE Market Survey Only, Rev. 1, Jan. 6, 1993.	
	DD5	"Minimizing Electrostatic Discharge Damage to a Cartridge", IBM Technical Disclosure Bulletin, vol. 29 No. 10, Mar., 1987.	
	DD6	Japanese Standards Association" F04 Type Connectors for Optical Fiber Cords JIS C 5973" Japanese Standards Association, 1990.	
	DD7	Ronald L. Soderstrom et al., A Miniaturized Fiber Optic Laser Receptacle Using a Compact Disk (CD) FOC/LAN '87 & MFOC- WEST, pp. 383-385, no date.	
	DD8	"Transceiver Module Assembly", IBM Technical Disclosure Bulletin, Oct. 1979, https://www.delphion.com/tbds/tdb?o=79A+06370 , last visited Mar. 3, 2005.	
	DD9	Ronald L. Soderstrom et al., Optical Components and Electronic Packaging for High Performance Optical Data Links, THE RESEARCH INVESTMENT, p. 19-28 (no date).	
	DD10	Thomas & Betts, INFO-LAN Modem, 1998.	
	DD11	"Active component manufacturers lower the cost of fiber to the desktop", Lightwave, Feb. 1994 pp. 58, 67.	

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	EE1	Fibre Distributed Data Interface (FDDI) - Token Ring Low-Cost Fibre Physical Layer Medium Dependent (LCF-PMD), American National Standards Institute, 1996.	
	EE2	Communications Standard Dictionary; p. 454, definition of inhomogeneous fiber, Van Nostrand Reinhold Publishing, 1983.	
	EE3	"Transmitter/receiver assembly simplifies use of fibre optics", Design Engineering, p. 19, Button Press, Ltd., April 1980.	
	EE4	Ronald L. Soderstrom et al., "CD laser as a fiber optic source for computer data links", Fiber Optic Datacom and Computer Networks, SPIE-The International Society for Optical Engineering Proceedings, Vol. 1577, pp. 174-181, 1988.	
	EE5	David A. Knodel et al., "Open Fibre Control, a laser safety interlock technique", High-Speed Fiber Networks and Channels, SPIE-The International Society for Optical Engineering Proceedings, Vol. 991, pp. 179-182, 1992.	
	EE6	IBM Technical Disclosure Bulletin, "Electrostatic Dissipative Enclosed Connector", Vol. 34, No. 7B, Dec. 1991.	
	EE7	"High Reliability SW Laser For Optical Data Links", LEOS '93 Conference Proceedings, IEEE Lasers and Electro-Optics Society 1993 Annual Meeting.	
	EE8	Minimizing Electrostatic Discharge to a Cartridge, IBM Technical Disclosure Bulletin, March 1987, https://www.delphion.com/tbds/tdb?o=87A%2060509 , last visited Mar. 8, 2005.	
	EE9	K.P. Jackson et al., "High-Density, Array, Optical Interconnects for Multi-Chip Modules", 1992 IEEE Multi-Chip Module Conference MCMC-92 Proceedings, IEEE Computer Society Press.	
	EE10	TDB: Stackable Circuit Card Packaging within a Logic Cage, IBM Technical Disclosure Bulletin, Dec. 1992, https://www.delphion.com/tbds/tdb?o=92A%2063485 , last visited Mar. 8, 2005.	
	EE11	Jeff Hecht, The Laser Guidebook, 2 nd ed., McGraw Hill, Inc., 1992.	

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		Filing Date	January 24, 2004
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		Group Art Unit	2874
		Examiner Name	Akm E. Ullah
Sheet 1 of 1	Attorney Docket Number	31238-200393	

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ² (if known)			
	A1	5,879,173		Poplawski et al.	03-09-1999	

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